Title (en)
MICROMACHINED MONOLITHIC 6-AXIS INERTIAL SENSOR

Title (de)
MIKROVERARBEITETER MONOLITHISCHER INERTIALSENSOR MIT SECHS ACHSEN

Title (fr)
CAPTEUR INERTIEL MONOLITHIQUE 6 AXES MICRO-USINÉ

Publication
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Application
EP 11826069 A 20110918

Priority
- US 38424010 P 20100918
- US 2011052061 W 20110918

Abstract (en)
[origin: WO2012037538A2] The device layer of a 6-degrees-of-freedom (6-DOF) inertial measurement system can include a single proof-mass 6-axis inertial sensor formed in an x-y plane, the inertial sensor including a main proof-mass section suspended about a single, central anchor, the main proof-mass section including a radial portion extending outward towards the edge of the inertial sensor, a central suspension system configured to suspend the 6-axis inertial sensor from the single, central anchor, and a drive electrode including a moving portion and a stationary portion, the moving portion coupled to the radial portion, wherein the drive electrode and the central suspension system are configured to oscillate the 6-axis inertial sensor about a z-axis normal to the x-y plane.

IPC 8 full level
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B81B 3/00 (2013.01 - KR); **B81B 3/0018** (2013.01 - US); **B81C 1/00** (2013.01 - KR); **B81C 1/00158** (2013.01 - US); **G01C 19/5621** (2013.01 - KR); **G01C 19/5712** (2013.01 - EP US); **G01C 19/5755** (2013.01 - EP US); **G01P 15/125** (2013.01 - EP US); **G01P 15/18** (2013.01 - EP US); G01P 2015/082 (2013.01 - EP US); G01P 2015/084 (2013.01 - EP US)

Citation (search report)
- [XAY] US 2009064780 A1 20090312 - CORONATO LUCA [IT], et al
- [Y] US 2009114016 A1 20090507 - NASIRI STEVEN [US], et al
- See references of WO 2012037538A2

Designated contracting state (EPC)
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WO 2012037538 A2 20120322; **WO 2012037538 A3 20120705**; CN 103221779 A 20130724; CN 103221779 B 20170531; EP 2616771 A2 20130724; EP 2616771 A4 20150826; EP 2616771 B1 20181031; EP 2616771 B8 20181219; KR 101938609 B1 20190115; KR 20130097209 A 20130902; US 2013270657 A1 20131017; US 9278846 B2 20160308

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US 2011052061 W 20110918; CN 201180055823 A 20110918; EP 11826069 A 20110918; KR 20137009787 A 20110918; US 201113821793 A 20110918